



## Safety Data Sheet

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<b>Document group:</b>	38-4409-9	<b>Version number:</b>	3.00
<b>Revision date:</b>	06/05/2019	<b>Supersedes date:</b>	05/02/2019
<b>Transportation version number:</b>	1.00 (10/12/2018)		

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

G1813, Black Chrome Air Refresher (29-57A): G181302; 181302EU

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### Identified uses

Automotive.

#### 1.3. Details of the supplier of the safety data sheet

<b>Address:</b>	Meguiars United Kingdom Limited, 3 Lamport Court, Heartlands, Daventry, Northants, NN11 8UF
<b>Telephone:</b>	+44 (0)870 241 6696
<b>E Mail:</b>	info@meguiars.co.uk
<b>Website:</b>	www.meguiars.co.uk

#### 1.4. Emergency telephone number

+44 (0)870 241 6696

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

CLP REGULATION (EC) No 1272/2008

##### CLASSIFICATION:

Aerosol, Category 1 - Aerosol 1; H222, H229

For full text of H phrases, see Section 16.

#### 2.2. Label elements

CLP REGULATION (EC) No 1272/2008

##### SIGNAL WORD

DANGER.

**G1813, Black Chrome Air Refresher (29-57A): G181302; 181302EU****Symbols:**

GHS02 (Flame) |

**Pictograms****HAZARD STATEMENTS:**

H222 Extremely flammable aerosol.  
H229 Pressurised container. may burst if heated.

**PRECAUTIONARY STATEMENTS****General:**

P102 Keep out of reach of children.

**Prevention:**

P210A Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.

**Storage:**

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50C/122F.

**SUPPLEMENTAL INFORMATION:****Supplemental Hazard Statements:**

EUH208 Contains 3-Cyclohexene-1-carboxaldehyde and 4-(4-Hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde. | Linalyl Alcohol. | (R)-p-mentha-1,8-diene. May produce an allergic reaction.

**2.3. Other hazards**

None known.

**SECTION 3: Composition/information on ingredients**

Ingredient	CAS Nbr	EC No.	REACH Registration No.	% by Wt	Classification
Propene, 1,3,3,3,-tetrafluoro-,(E)-	29118-24-9			50 - 85	Substance not classified as hazardous
Ethanol	64-17-5	200-578-6		10 - 30	Flam. Liq. 2, H225 Eye Irrit. 2, H319
Oxydipropanol	Trade Secret			1 - 5	Substance not classified as hazardous
Fragrance	Trade Secret			0.1 - 1	Substance not classified as hazardous
ETHYLENE GLYCOL, CYCLIC TRIDECANEDIOATE	105-95-3	203-347-8		< 0.5	Aquatic Acute 1, H400
5-Methoxypsoralen	Trade Secret			< 0.5	Substance not classified as hazardous
Hexylcinnamaldehyde	101-86-0	202-983-3		0.1 -	Substance not classified as

				0.3	hazardous
Linalyl Alcohol	78-70-6	201-134-4		0.1 - 0.3	Skin Sens. 1B, H317
(R)-p-mentha-1,8-diene	5989-27-5	227-813-5		0.1 - 0.3	Flam. Liq. 3, H226; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 1, H400,M=1; Aquatic Chronic 1, H410,M=1 - Nota C Asp. Tox. 1, H304
3-Cyclohexene-1-carboxaldehyde and 4-(4-Hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde	31906-04-4	250-863-4		< 0.05	Skin Sens. 1A, H317 Aquatic Chronic 3, H412

Please see section 16 for the full text of any H statements referred to in this section

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation

Remove person to fresh air. If you feel unwell, get medical attention.

#### Skin contact

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

#### Eye contact

Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

#### If swallowed

Rinse mouth. If you feel unwell, get medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1 Information on toxicological effects

### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

Use a fire fighting agent suitable for the surrounding fire.

### 5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

### 5.3. Advice for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 6.2. Environmental precautions

For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

### 6.3. Methods and material for containment and cleaning up

Contain spill. Cover spill area with a fire-extinguishing foam designed for use on solvents, such as alcohols and acetone, that can dissolve in water. An AR-AFFF type foam is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible.

### 6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

### 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Store away from heat. Store away from acids. Store away from oxidising agents.

### 7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

<b>Ingredient</b>	<b>CAS Nbr</b>	<b>Agency</b>	<b>Limit type</b>	<b>Additional comments</b>
Ethanol	64-17-5	UK HSC	TWA:1920 mg/m <sup>3</sup> (1000 ppm)	

UK HSC : UK Health and Safety Commission

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

#### Biological limit values

No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

## 8.2. Exposure controls

### 8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Full face shield.

Indirect vented goggles.

#### *Applicable Norms/Standards*

Use eye/face protection conforming to EN 166

#### Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

Gloves made from the following material(s) are recommended:

Material	Thickness (mm)	Breakthrough Time
Polymer laminate	>0.30	> 4 hours
Fluoroelastomer	0.4	> 8 hours
Nitrile rubber.	0.35	> 8 hours
Polyvinyl alcohol (PVA).	>0.30	> 8 hours

The glove data presented are based on the substance driving dermal toxicity and the conditions present at the time of testing. Breakthrough time may be altered when the glove is subjected to use conditions that place additional stress on the glove.

#### *Applicable Norms/Standards*

Use gloves tested to EN 374

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron – Nitrile  
Apron - polymer laminate

#### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapours

For questions about suitability for a specific application, consult with your respirator manufacturer.

#### *Applicable Norms/Standards*

Use a respirator conforming to EN 140 or EN 136: filter type A

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Appearance/Odour	Fresh scent, Clear
Odour threshold	No data available.
pH	Not applicable.
Boiling point/boiling range	-10.6 °C
Melting point	No data available.
Flammability (solid, gas)	Not applicable.
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	14.4 °C
Autoignition temperature	No data available.
Flammable Limits(LEL)	No data available.
Flammable Limits(UEL)	No data available.
Vapour pressure	No data available.
Relative density	0.81
Water solubility	No data available.
Solubility- non-water	No data available.
Partition coefficient: n-octanol/water	No data available.
Evaporation rate	No data available.
Vapour density	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Density	0.81 g/ml

### 9.2. Other information

EU Volatile Organic Compounds	812 g/l [Details:(calculated per Directive 2004/42/EC)]
Percent volatile	97.1 % weight [Test Method:Estimated]

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

### 10.2 Chemical stability

Stable.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.4 Conditions to avoid

Heat.

### 10.5 Incompatible materials

Strong acids.

### 10.6 Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
None known.	

## SECTION 11: Toxicological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from 3M assessments.

### 11.1 Information on Toxicological effects

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

##### Inhalation

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

##### Skin contact

Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

##### Eye contact

Sprayed material may cause eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

##### Ingestion

May cause additional health effects (see below).

#### Additional Health Effects:

##### Single exposure may cause target organ effects:

Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

##### Additional information:

This product contains ethanol. Alcoholic beverages and ethanol in alcoholic beverages have been classified by the International Agency for Research on Cancer as carcinogenic to humans. There are also data associating human consumption of alcoholic beverages with developmental toxicity and liver toxicity. Exposure to ethanol during the foreseeable use of this product is not expected to cause cancer, developmental toxicity, or liver toxicity.

#### Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

##### Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Ethanol	Dermal	Rabbit	LD50 > 15,800 mg/kg
Ethanol	Inhalation-Vapour (4 hours)	Rat	LC50 124.7 mg/l
Ethanol	Ingestion	Rat	LD50 17,800 mg/kg
Oxydipropanol	Dermal	Rabbit	LD50 > 5,010 mg/kg
Oxydipropanol	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 2.34 mg/l
Oxydipropanol	Ingestion	Rat	LD50 > 5,010 mg/kg
(R)-p-mentha-1,8-diene	Inhalation-	Mouse	LC50 > 3.14 mg/l

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	Vapour (4 hours)		
(R)-p-mentha-1,8-diene	Dermal	Rabbit	LD50 > 5,000 mg/kg
(R)-p-mentha-1,8-diene	Ingestion	Rat	LD50 4,400 mg/kg
Linalyl Alcohol	Dermal	Rabbit	LD50 5,610 mg/kg
Linalyl Alcohol	Ingestion	Rat	LD50 2,790 mg/kg

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value
Ethanol	Rabbit	No significant irritation
Oxydipropanol	Rabbit	No significant irritation
(R)-p-mentha-1,8-diene	Rabbit	Mild irritant

**Serious Eye Damage/Irritation**

Name	Species	Value
Ethanol	Rabbit	Severe irritant
Oxydipropanol	Rabbit	No significant irritation
(R)-p-mentha-1,8-diene	Rabbit	Mild irritant

**Skin Sensitisation**

Name	Species	Value
Ethanol	Human	Not classified
Oxydipropanol	Guinea pig	Not classified
(R)-p-mentha-1,8-diene	Mouse	Sensitising

**Respiratory Sensitisation**

For the component/components, either no data is currently available or the data is not sufficient for classification.

**Germ Cell Mutagenicity**

Name	Route	Value
Ethanol	In Vitro	Some positive data exist, but the data are not sufficient for classification
Ethanol	In vivo	Some positive data exist, but the data are not sufficient for classification
Oxydipropanol	In Vitro	Not mutagenic
Oxydipropanol	In vivo	Not mutagenic
(R)-p-mentha-1,8-diene	In Vitro	Not mutagenic
(R)-p-mentha-1,8-diene	In vivo	Not mutagenic

**Carcinogenicity**

Name	Route	Species	Value
Ethanol	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
Oxydipropanol	Ingestion	Multiple animal species	Not carcinogenic
(R)-p-mentha-1,8-diene	Ingestion	Rat	Some positive data exist, but the data are not sufficient for classification

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test result	Exposure Duration
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Ethanol	Inhalation	Not classified for development	Rat	NOAEL 38 mg/l	during gestation
Ethanol	Ingestion	Not classified for development	Rat	NOAEL 5,200 mg/kg/day	premating & during gestation
Oxydipropanol	Ingestion	Not classified for development	Rat	NOAEL 5,000 mg/kg/day	during organogenesis
(R)-p-mentha-1,8-diene	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	premating & during gestation
(R)-p-mentha-1,8-diene	Ingestion	Not classified for development	Multiple animal species	NOAEL 591 mg/kg/day	during organogenesis

**Target Organ(s)**
**Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Ethanol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	LOAEL 2.6 mg/l	30 minutes
Ethanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	LOAEL 9.4 mg/l	not available
Ethanol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL not available	
Ethanol	Ingestion	kidney and/or bladder	Not classified	Dog	NOAEL 3,000 mg/kg	
(R)-p-mentha-1,8-diene	Ingestion	nervous system	Not classified		NOAEL Not available	

**Specific Target Organ Toxicity - repeated exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Ethanol	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rabbit	LOAEL 124 mg/l	365 days
Ethanol	Inhalation	hematopoietic system   immune system	Not classified	Rat	NOAEL 25 mg/l	14 days
Ethanol	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 8,000 mg/kg/day	4 months
Ethanol	Ingestion	kidney and/or bladder	Not classified	Dog	NOAEL 3,000 mg/kg/day	7 days
Oxydipropanol	Ingestion	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 470 mg/kg/day	105 weeks
Oxydipropanol	Ingestion	heart	Not classified	Rat	NOAEL 470 mg/kg/day	105 weeks
Oxydipropanol	Ingestion	endocrine system   liver	Not classified	Rat	NOAEL 3,040 mg/kg/day	105 weeks
Oxydipropanol	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 115 mg/kg/day	105 weeks
Oxydipropanol	Ingestion	skin   bone, teeth, nails, and/or hair   hematopoietic system   immune system   nervous system   vascular system	Not classified	Rat	NOAEL 3,040 mg/kg/day	105 weeks
(R)-p-mentha-1,8-diene	Ingestion	kidney and/or	Not classified	Rat	LOAEL 75	103 weeks

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(R)-p-mentha-1,8-diene	Ingestion	bladder liver	Not classified	Mouse	mg/kg/day NOAEL 1,000 mg/kg/day	103 weeks
(R)-p-mentha-1,8-diene	Ingestion	heart   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   immune system   muscles   nervous system   respiratory system	Not classified	Rat	NOAEL 600 mg/kg/day	103 weeks

**Aspiration Hazard**

Name	Value
(R)-p-mentha-1,8-diene	Aspiration hazard

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

**SECTION 12: Ecological information**

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

**12.1. Toxicity**

No product test data available.

Material	CAS #	Organism	Type	Exposure	Test endpoint	Test result
Propene, 1,3,3,3,-tetrafluoro-,(E)-	29118-24-9	Water flea	Experimental	48 hours	EC50	>160 mg/l
Propene, 1,3,3,3,-tetrafluoro-,(E)-	29118-24-9	Green algae	Experimental	72 hours	EC50	>170 mg/l
Propene, 1,3,3,3,-tetrafluoro-,(E)-	29118-24-9	Common Carp	Experimental	96 hours	LC50	>117 mg/l
Propene, 1,3,3,3,-tetrafluoro-,(E)-	29118-24-9	Green algae	Experimental	72 hours	Effect Concentration 10%	>170 mg/l
Ethanol	64-17-5	Water flea	Experimental	48 hours	LC50	5,012 mg/l
Ethanol	64-17-5	Rainbow trout	Experimental	96 hours	LC50	42 mg/l
Ethanol	64-17-5	Water flea	Experimental	10 days	NOEC	9.6 mg/l
Ethanol	64-17-5	Algae other	Experimental	96 hours	NOEC	1,580 mg/l
Oxydipropanol	Trade Secret	Green algae	Experimental	72 hours	EC50	>100 mg/l
Oxydipropanol	Trade Secret	Water flea	Experimental	48 hours	EC50	>100 mg/l
Oxydipropanol	Trade Secret	Goldfish	Experimental	96 hours	LC50	>5,000 mg/l
Oxydipropanol	Trade Secret	Green algae	Experimental	72 hours	NOEC	100 mg/l
Fragrance	Trade Secret		Data not available or insufficient for classification			
5-Methoxypsoralen	Trade Secret		Data not available or insufficient for classification			

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ETHYLENE GLYCOL, CYCLIC TRIDECANEDIOATE	105-95-3	Fathead minnow	Estimated	96 hours	LC50	0.86 mg/l
Hexylcinnamaldehyde	101-86-0	Water flea	Estimated	48 hours	EC50	0.28 mg/l
Hexylcinnamaldehyde	101-86-0	Green Algae	Estimated	72 hours	EC50	2.3 mg/l
Hexylcinnamaldehyde	101-86-0	Ricefish	Estimated	96 hours	LC50	0.91 mg/l
Hexylcinnamaldehyde	101-86-0	Green Algae	Estimated	72 hours	NOEC	0.21 mg/l
Hexylcinnamaldehyde	101-86-0	Water flea	Estimated	21 days	NOEC	0.014 mg/l
(R)-p-mentha-1,8-diene	5989-27-5	Fathead minnow	Experimental	96 hours	LC50	0.702 mg/l
(R)-p-mentha-1,8-diene	5989-27-5	Water flea	Experimental	48 hours	EC50	0.307 mg/l
(R)-p-mentha-1,8-diene	5989-27-5	Green Algae	Experimental	72 hours	EC50	0.32 mg/l
(R)-p-mentha-1,8-diene	5989-27-5	Green Algae	Experimental	72 hours	Effect Concentration 10%	0.174 mg/l
(R)-p-mentha-1,8-diene	5989-27-5	Water flea	Experimental	21 days	NOEC	0.08 mg/l
Linalyl Alcohol	78-70-6	Green Algae	Experimental	72 hours	EC50	>34 mg/l
Linalyl Alcohol	78-70-6	Water flea	Experimental	48 hours	EC50	20 mg/l
Linalyl Alcohol	78-70-6	Rainbow trout	Experimental	96 hours	LC50	27.8 mg/l
Linalyl Alcohol	78-70-6	Water flea	Experimental	21 days	NOEC	9.5 mg/l
Linalyl Alcohol	78-70-6	Green Algae	Experimental	72 hours	NOEC	5.6 mg/l
3-Cyclohexene-1-carboxaldehyde and 4-(4-Hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde	31906-04-4	Water flea	Experimental	48 hours	EC50	76 mg/l
3-Cyclohexene-1-carboxaldehyde and 4-(4-Hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde	31906-04-4	Green Algae	Experimental	72 hours	EC50	25.4 mg/l
3-Cyclohexene-1-carboxaldehyde and 4-(4-Hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde	31906-04-4	Fathead minnow	Experimental	96 hours	LC50	11.8 mg/l
3-Cyclohexene-1-carboxaldehyde and 4-(4-Hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde	31906-04-4	Green Algae	Experimental	72 hours	NOEC	5.95 mg/l

**12.2. Persistence and degradability**

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Propene, 1,3,3,3,-tetrafluoro,-(E)-	29118-24-9	Experimental Photolysis		Photolytic half-life (in air)	34.4 days (t 1/2)	Other methods
Propene, 1,3,3,3,-tetrafluoro,-(E)-	29118-24-9	Experimental Biodegradation	28 days	BOD	0 %BOD/COD	OECD 301D - Closed bottle test
Ethanol	64-17-5	Experimental Biodegradation	14 days	BOD	89 % BOD/ThBOD	OECD 301C - MITI test (I)
Oxydipropanol	Trade Secret	Experimental Biodegradation	28 days	BOD	84.4 % BOD/ThBOD	OECD 301F - Manometric respirometry
Fragrance	Trade Secret	Data not available - insufficient			N/A	

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5-Methoxypsoralen	Trade Secret	Data not available or insufficient			N/A	
ETHYLENE GLYCOL, CYCLIC TRIDECANEDIOATE	105-95-3	Experimental Biodegradation	28 days	BOD	85 % weight	OECD 301C - MITI test (I)
Hexylcinnamaldehyde	101-86-0	Modeled Photolysis		Photolytic half-life (in air)	7 hours (t 1/2)	Other methods
Hexylcinnamaldehyde	101-86-0	Experimental Biodegradation	28 days	BOD	99 % weight	OECD 301F - Manometric respirometry
(R)-p-mentha-1,8-diene	5989-27-5	Experimental Biodegradation	14 days	BOD	98 % BOD/ThBOD	OECD 301C - MITI test (I)
Linalyl Alcohol	78-70-6	Experimental Biodegradation	28 days	BOD	80 % weight	OECD 301C - MITI test (I)
3-Cyclohexene-1-carboxaldehyde and 4-(4-Hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde	31906-04-4	Experimental Biodegradation	28 days	CO2 evolution	41.2 % weight	OECD 301B - Modified Sturm or CO2

**12.3 : Bioaccumulative potential**

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
Propene, 1,3,3,3-tetrafluoro-(E)-	29118-24-9	Experimental Bioconcentration		Log Kow	1.6	Other methods
Ethanol	64-17-5	Experimental Bioconcentration		Log Kow	-0.35	Other methods
Oxydipropanol	Trade Secret	Experimental BCF-Carp	42 days	Bioaccumulation factor	4.6	OECD 305E - Bioaccumulation flow-through fish test
Fragrance	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
5-Methoxypsoralen	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
ETHYLENE GLYCOL, CYCLIC TRIDECANEDIOATE	105-95-3	Estimated Bioconcentration		Bioaccumulation factor	4.1	Estimated: Bioconcentration factor
Hexylcinnamaldehyde	101-86-0	Experimental Bioconcentration		Log Kow	5.3	Other methods
(R)-p-mentha-1,8-diene	5989-27-5	Estimated Bioconcentration		Bioaccumulation factor	2100	Estimated: Bioconcentration factor
Linalyl Alcohol	78-70-6	Experimental Bioconcentration		Log Kow	2.97	Other methods
3-Cyclohexene-1-carboxaldehyde and 4-(4-Hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde	31906-04-4	Experimental Bioconcentration		Log Kow	2.1	Other methods

**12.4. Mobility in soil**

Please contact manufacturer for more details

**12.5. Results of the PBT and vPvB assessment**

This material does not contain any substances that are assessed to be a PBT or vPvB

**12.6. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

## G1813, Black Chrome Air Refresher (29-57A): G181302; 181302EU

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. Facility must be capable of handling aerosol cans. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of the manufacturer, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/CE and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor

### EU waste code (product as sold)

16 05 04\* Gases in pressure containers (including halons) containing dangerous substances

### EU waste code (product container after use)

15 01 04 Metallic packaging

## SECTION 14: Transportation information

ADR: UN1950; AEROSOLS, 2.1, Classification code: 5F

IATA: UN1950; AEROSOLS, FLAMMABLE, 2.1.

IMDG: UN1950; AEROSOLS, 2.1, EmS-Code: F-D, S-U

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Carcinogenicity

<u>Ingredient</u>	<u>CAS Nbr</u>	<u>Classification</u>	<u>Regulation</u>
5-Methoxypsoralen	Trade Secret	Grp. 2A: Probable human carc.	International Agency for Research on Cancer
(R)-p-mentha-1,8-diene	5989-27-5	Gr. 3: Not classifiable	International Agency for Research on Cancer

#### Global inventory status

Contact manufacturer for more information The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. The components of this product are in compliance with the chemical notification requirements of TSCA.

### 15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for this substance/mixture in accordance with Regulation (EC) No 1907/2006, as amended.

## SECTION 16: Other information

### List of relevant H statements

H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.

H229	Pressurised container. may burst if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Revision information:**

Section 1: Product name information was modified.

Label: CLP Percent Unknown information was deleted.

List of sensitizers information was modified.

Section 3: Composition/ Information of ingredients table information was modified.

Section 6: Accidental release clean-up information information was modified.

Section 8: glove data value information was added.

Section 8: glove data value information was modified.

Section 8: Personal Protection - Skin/body information information was added.

Section 8: Skin protection - protective clothing information information was added.

Section 11: Health Effects - Additional Information information was added.

Section 11: Reproductive and/or Developmental Effects text information was deleted.

Section 12: Component ecotoxicity information information was modified.

Section 12: Persistence and Degradability information information was modified.

Section 12: Biocumulative potential information information was modified.

Section 15: Chemical Safety Assessment information was added.

Section 15: Regulations - Inventories information was modified.

Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. information was modified.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

**Meguiar's, Inc. United Kingdom SDSs are available at [www.meguiars.co.uk](http://www.meguiars.co.uk)**